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The Files

24 November 1958

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Trip Report - RS-18 Training Program

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1. The [REDACTED] in Los Angeles was visited from November 3, 1958 through November 21, 1958, by Mr. [REDACTED] of INB and the writer for the purpose of studying the RS-18 communications system. [REDACTED] remained in Los Angeles for more study of the system.

25X1A9a

2. It is felt that the instruction was adequate on all components of the system. It was pointed out by the engineers of [REDACTED] that the base station is an engineering model and thus could not be expected to perform as well as contemplated future models.

25X1A5a1

3. Diagrams were not available for the power supplies or recorder control circuits in the base station. While this did not hinder the understanding of the over-all system, such diagrams would have been useful for better understanding of the control circuits.

4. The following items were of major interest during the study of the system.

- (a) A battery which had powered a field set for 44 transmissions required about an hour to obtain full charge compared to 1/2 hour for batteries not completely discharged.
- (b) Coder speed regulation is perhaps more critical than originally believed. A rough check indicated that a speed variation of more than  $\pm 3\%$  may interfere with proper operation of the character synchronization circuits. Variations greater than  $\pm 3\%$  do not seem to cause loss of phase information.
- (c) A very strong signal can overload the base station and cause the resultant incoming information to be difficult to interpret on the visual translator.

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5. [REDACTED] stated that five field units and the engineering model of the base station will probably be delivered shortly after the first of the year.

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Lab/JHB/rkb (25 November 1958)

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